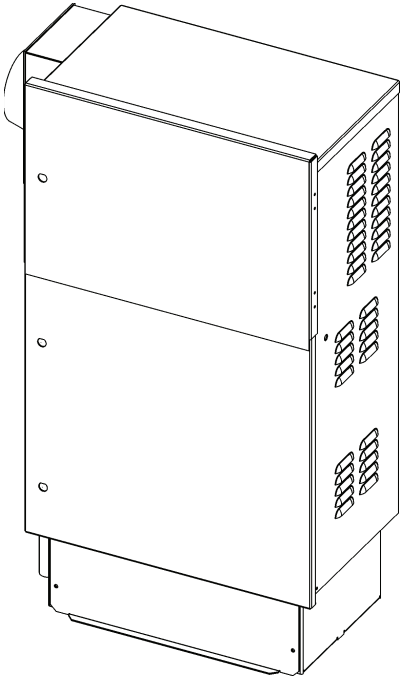
Broadband
CTEG4-240MB-5

Four Battery Ground Mount Enclosure

240 V

User Manual



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General Information

The American Power Conversion (APC®) CTEG Enclosure provides power sourcing for broadband cable operations.

Safety

This Safety Guide contains important instructions that should be followed during installation and maintenance of the APC equipment and batteries. It is intended for APC customers who setup, install, relocate, or maintain APC equipment.

Only trained service personnel should install and maintain the power supply enclosure.

Changes and modifications to this unit not expressly approved by APC could void the warranty.

Failure to observe these warnings may result in serious injury, death or damage to the equipment.

Electrical Warnings	Do not work alone under hazardous conditions.
	Do not handle any metallic connector before the power has been disconnected.
	Servicing this equipment may require working with protective covers removed and utility power connected. Use extreme caution during these procedures.
	High current through conductive materials could cause severe burns.
	When grounding cannot be verified, disconnect the equipment from the utility power outlet before installing or connecting to other equipment. Reconnect the power cord only after all connections are made.
	Check that the power cord(s), plug(s), and sockets are in good condition.
	Replacement of fuses or other parts must be with identical types and ratings. Substitution of nonidentical parts may cause safety and fire hazards.
Battery Warnings	Always replace batteries with same or equivalent type recommended by the manufacturer.
	Danger of explosion if battery is incorrectly connected or replaced.
	Batteries present a risk of electrical shock and burns from high current in the event of a short-circuit. Observe proper safety precautions.
	Batteries must be recycled. Deliver the battery to an appropriate recycling facility.
Overhead Warnings	Never stand underneath a unit while it is hoisted. Always wear a hard hat.
Lifting Warnings	Modules are heavy. Use proper lifting techniques and equipment to avoid injury.

Installation

Utility line voltage must be routed to the enclosure. Local, state, federal and/or National Electric Code (NEC) regulations regarding location, permits and electrical wiring must be adhered to.

Do not operate the power supply where the temperature and humidity are outside the specified limits. See *Specifications* in this manual.

Specifications

Environmental Specifications

Operating Temperature	-40º F to 140º F (-40º C to 60º C)

Physical Specifications

Characteristic	Specification
Height X Width X Depth	47” x 28” x 18” (119 x 71 x 46 cm)
Weight	70 lbs (32 kg)

Unpacking

Inspect the unit upon receipt. Notify the carrier if there is damage.

The packaging is recyclable; save it for reuse or dispose of it properly.

Check the package contents. The package contains the enclosure, battery cables, connectors and associated hardware, and product documentation.

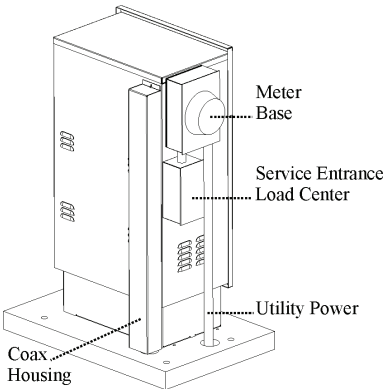
CTEG4-240MB-5: (5 cables)	15" black battery jumpers (2); 40" black (1); 80" black (1); 40" red (1)

Installing the Enclosure

1. Install an APC approved concrete pad.
   Contact your dealer or refer to the APC Web site, www.apc.com for more information.
2. Secure the enclosure to the pad. Refer to the diagram below.

Place the enclosure on the pad. The holes on the enclosure must be aligned with the anchor hooks on the pad, (hardware not included).

This is a general representation of an enclosure mounted on a pad. Configurations may vary.

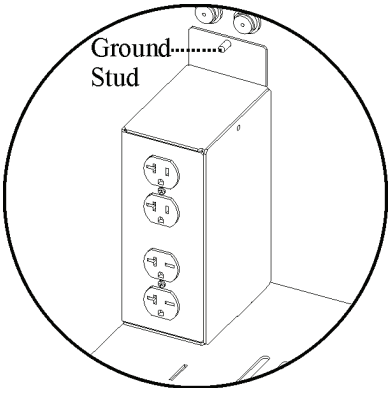


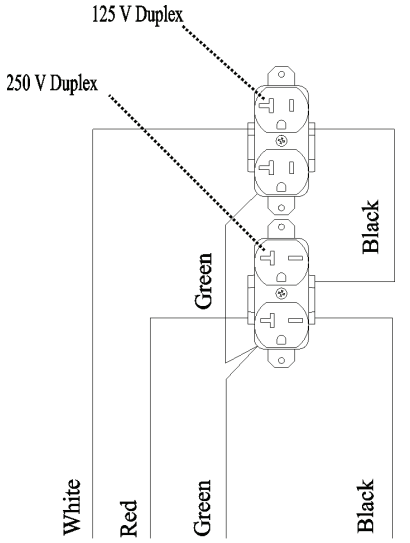
Wiring

Grounding

Install and interconnect ground rods appropriate for proper grounding according to local electrical code requirements.

Connecting Utility Power to the Enclosure





Wiring colors to correspond with the breaker/meter base

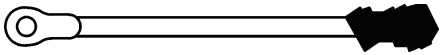
1. Unlock and open the door of the enclosure.
2. Ensure that the utility power switch is OFF.
3. Install a high magnetic circuit breaker box
4. Using appropriate conduit connectors, run wires from the utility breaker box to the receptacle box inside the enclosure.
5. Connect the wires to the receptacle and install it in the enclosure.
6. Refer to the CTSP-EM User Manual for detailed installation instructions regarding the Interface Harness connections.

Connecting the Batteries

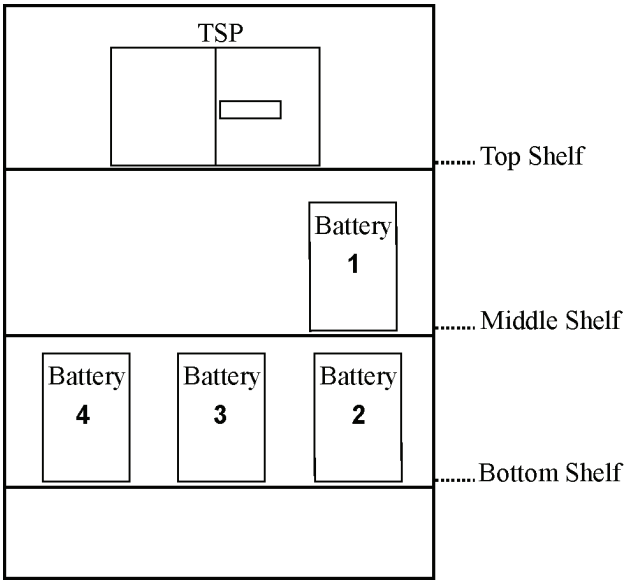
The battery circuit breaker must be OFF prior to battery installation.

Use normal precautionary measures when wiring and connecting the batteries.

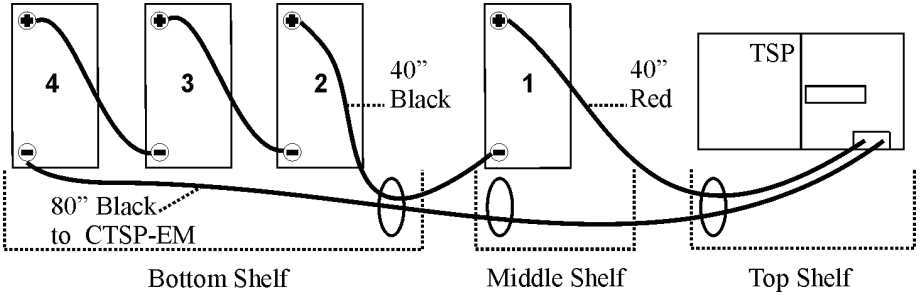
Tape one end of each jumper cable prior to installation.



Overview



Wiring Schematic



Service, Contact and Warranty Information

Service

APC makes every effort to ensure parts and equipment arrive in working condition. Occasionally, it may be necessary to return parts or equipment that are not in working condition.

If the UPS requires service do not return it to the dealer. Follow these steps:

1. Contact APC Customer Service through the APC Web site, www.apc.com.
   - Note the product model number, the serial number, and the date purchased. If you call APC Customer Service, a technician will ask you to describe the problem and try to solve it over the phone. If this is not possible the technician will issue a Returned Material Authorization Number (RMA#).
   - If the product is under warranty, repairs are free. If not, there is a repair charge.
   - Procedures for servicing or returning products may vary internationally. Refer to the APC Web site for country specific instructions.
2. Pack the product in its original packaging. If the original packing is not available, refer to the APC Web site for information on obtaining appropriate packing materials.
   - Pack the unit properly to avoid damage in transit. Never use Styrofoam beads for packaging. Damage sustained in transit is not covered under warranty.
3. Mark the RMA# on the outside of the package.
4. Return the unit by insured, prepaid carrier to the address given to you by Customer Service.

How to Contact APC

Refer to the APC Web site, www.apc.com.

Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of one year from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

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